

### ABSTRACT OF THE DISCLOSURE

A duplex optical transmission-reception module includes an optical fiber. A light-receiving element which corresponds to the optical fiber for receiving optical energy transmitted through the optical fiber from a distal end and converting the optical energy into electric energy which is output from an output terminal. A light-emitting element connected on the light-receiving element. The light-emitting element is projectively aligned with the end face of the optical fiber. When the light-emitting element is energized to project light beam outward, the light beam is projected right to the end face of the optical fiber and input to the optical fiber. The light beam is transmitted along the optical fiber to the distal end to be received by another receiver to output a signal. The function of duplex transmission can be achieved without mounting any refractive element between the optical fiber, the light-receiving element and the light-emitting element.